

MR12-210

(Premium Replacement for UPS12-200FR)

VALVE REGULATED
LEAD ACID BATTERY
FOR UPS STANDBY
POWER APPLICATIONS
12V 53 AH @ 20 HR RATE,
12V 206 WATTS/CELL @
15 MIN RATE

FEATURES

- 10 year design life @ 25°C (77°F)
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- 3 Year Warranty (refer Dynasty warranty card, 41-9011)
- Patented Long Life Alloy having the lowest calcium levels in the industry - minimizing grid growth, reducing gassing, and extending battery life.
- Patented UL Recognized Flame-arresting vents in each cell for safety and long life.
- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the Bellcore 4228 compliant Dynasty Telecom products.
- Proprietary computer modeled radial grid matrix using multiple conductors to provide the lowest internal resistance and highest current carrying capability.

- Proprietary Fixed Orifice Plate Pasting technology applying active material on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.
- UL-recognized component complying with UL1778, 924, 1989 and 94 V-0
- Thermally welded case-to-cover bond to eliminate leakage.
- Can be operated in any orientation. Upright, side or end mounting recommended.
- Not restricted for air transport Complies with IATA/ICAO Special Provision A67
- Not restricted for surface transport Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189
- Not restricted for water transport Classified as non-hazardous material per IMDG Amendment 27.
- Flame-retardant polypropylene case and cover compliant with UL 94 V-0 with an Oxygen Limiting Index of greater than 28.

12 Volts – 206 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell Constant Power Discharge Ratings – Watts Per Cell @ 77 $^\circ$ F (25 $^\circ$ C)

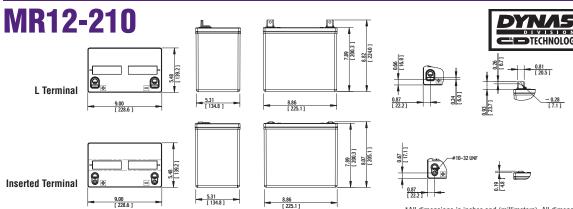
Operating Time to End Point Voltage (in minutes)

End Point Volts/Cell	10	15	20	30	40	45	50	60	90
1.67	257	206	170	125	101	92	85	73	52

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MR12-210 - Specifications

*All dimensions in inches and (millimeters). All dimensions are for reference only.
Contact a C&D Representative for complete dimensional information.

Cells Per Unit	Voltage Per Unit Weight		Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)	
6	12.84	40 lbs. 18 kg	Absorbed H_2SO_4 SG = 1.300	600 Amps	3000 Amps @ 0.1 sec.	0.0045 Ohms	

Capacity	206 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C). 53.4 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C). 49.2 Ah @ 10 hr. rate to 1.80 volts per cell @ 20°C (68°F).					
Operating Temperature Range	Discharge: -40°F (-40°C) to +160°F (71°). Charge: -10°F (-23°C) to +140°F (60°) (with temperature compensation)					
Nominal Operating Temperature Range	+74°F (23°C) to +80°F (27°C).					
Floating Charging Voltage	13.5 to 13.8 VDC/unit Average at 77°F (25°C).					
Recommended Maximum Charging Current Limit	C/5 amperes (10.68 amperes @ 100% depth of discharge) @ 20 hr. rate.					
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 VDC/unit Average at 77°F (25°C).					
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P). Maximum current allowed = 2.67 amperes RMS (C/20).					
Self Discharge	Dynasty MaxRate batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.					
Accessories	Inter unit connectors, racks and cabinet systems are available.					
Terminal: L	"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.					
Terminal Hardware Initial Torque: L Terminal	40 inlbs. (4.5 N-m); Annual Retorque: 32 inlbs. (3.48 N-m).					
Terminal: Inserted	Threaded copper alloy insert terminal to accept 10-32 UNF bolt.					
Terminal Hardware Initial Torque: Inserted Terminal	25 inlbs. (2.8 N-m).					

Constant Power Discharge Ratings - Watts Per Cell @ 77°F (25°C)

Operating Time to End Point Voltage (in minutes)

End Point Volts/Cell	10	15	20	30	40	45	50	60	90
1.75	240	195	164	121	98	90	83.0	71.8	51.0
1.70	252	201	168	123	99	91	84.2	72.8	52.0
1.67	257	206	170	125	101	92	85.0	73.3	52.4
1.65	259	207	171	126	101	93	85.4	73.8	52.6
1.60	261	209	172	127	102	93	86.0	74.2	52.8

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)

Operating Time to End Point Voltage (in hours)

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End Point Volts/Cell	1	2	3	5	8	10	12	20	24	72					
1.85	33.0	18.7	13.3	8.60	5.78	4.74	4.02	2.50	2.10	0.73					
1.80	35.0	19.5	13.9	9.20	6.10	5.02	4.25	2.63	2.21	0.76					
1.75	36.5	20.6	14.5	9.40	6.23	5.09	4.30	2.67	2.24	0.77					

Note: Batteries to be mounted with 0.5 in (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.